

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-9-84		RECEIVED AUG 13 1984 OIL CON. DIV. DIST. 3		
Company Caulkins Oil Company				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde			Unit		
Completion Date 8-2-84		Total Depth 7435'		Plug Back TD 7435'		Elevation 6463		Farm or Lease Name Breech "D"	
Coq. Size 5 1/5"	Wt. 17#	d 4.892	Set At 7435'	Perforations From 4640' To 5267'			Well No. 240-E		
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5252'	Perforations From 5252' To			Unit Sec. Twp. R1e. F 15 26N 6W		
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Gas-Gas Multiple				Packer Set At 5532'			County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							987		898		7 Days
1.							192		557		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Fl.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	6.1155		204	1.000	1.000	1.000	1,247
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ X X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.477$	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.34$
1		569	323,761	678,240		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1,671$			
Absolute Open Flow _____ 1675 _____ Mcfd @ 15.025		Angle of Slope Φ _____ Slope, α _____ 75	
Remarks: _____			
Approved By Division _____		Conducted By: _____	
_____		Calculated By: _____	
_____		Checked By: _____	